

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 58065974  
PUBLICATION DATE : 19-04-83

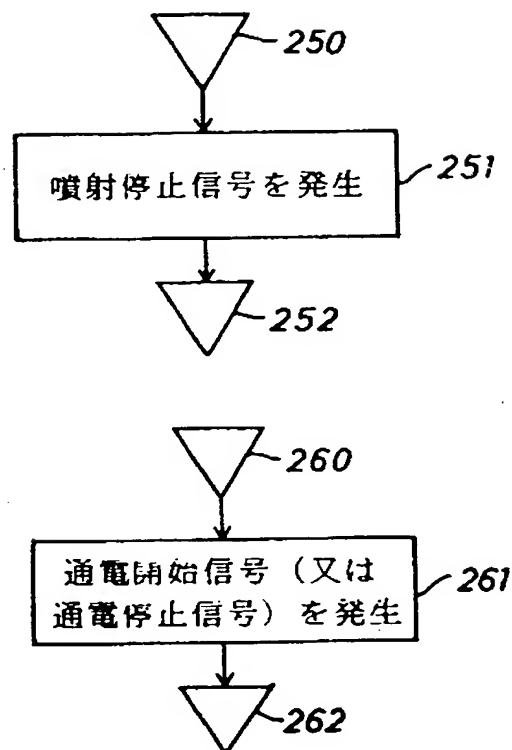
APPLICATION DATE : 15-10-81  
APPLICATION NUMBER : 56164864

APPLICANT : TOYOTA MOTOR CORP;

INVENTOR : TAKEDA YUJI;

INT.CL. : F02P 5/14

TITLE : ADJUSTMENT OF IGNITION TIMING  
FOR INTERNAL-COMBUSTION  
ENGINE FOR CAR



ABSTRACT : PURPOSE: To prevent mixing-in of the noise due to the fuel injection control pulse by prohibiting fuel injection during the knocking detection period, in a apparatus for controlling the ignition timing according to the intensity of knocking of an internal-combustion engine.

CONSTITUTION: At the fuelinjection suspension time, the injection suspension signal is generated in the step 251, and each fuel injection valve is closed according to said injection suspension signal, and injection is stopped. After that, knocking is detected and memorized. At the conduction termination time, the conduction starting signal is output from the step 261, and then the injection valve is opened to restart injection. Therefore, mixing-in of the noise due to the injection valve driving pulse can be prevented.

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